

ABSTRACT OF THE DISCLOSURE

A high precision torque motor, including a partial rotation drive suitable for use in a galvanometer scanner, where the rotor is supported within the stator and housing assembly on all ceramic ball bearings, including inner and outer races and bearing balls. The ceramic ball bearing assemblies and all structural support elements have substantially equal coefficients of expansion through the use of matched expansion, nickel-iron alloy for the rotor shaft, stator, housing and other structural components which contact, locate, and support the inner and outer bearing races. The non-conductive bearings permit exclusion of any grounding conductor strap as between the rotor shaft and the housing.